REMARKS

The Applicants and the undersigned thank Examiner Ha for her time and consideration given during the telephone interview of December 12, 2005. The Applicants also appreciate Examiner Ha's careful review of this application. Claims 1-9 and 11-65 have been rejected. Upon entry of this amendment, Claims 1-9 and 11-65 remain pending in this application.

The independent claims are Claims 1, 42, 51, and 56. Consideration of the present application is respectfully requested in light of the above amendments to the application and in view of the following remarks.

Summary of Telephonic Interview of December 12, 2005

The Applicants and the undersigned thank the Examiner for her time and consideration given during the telephonic interview of December 12, 2005. During this telephonic interview, a proposed amendment to the claims was discussed.

The Applicants' representative explained that the prior art of record, especially U.S. Patent No. 6,070,190 issued to Reps et al. (hereinafter the "Reps" reference) does not provide any teaching of recording computer security incident information with at least one of a date and time stamp, the computer security incident information indicating one of suspicious computer activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat and an actual computer security threat, as recited in amended independent Claims 1, 42, 51, and 56.

The focus of the interview was to make sure that Examiner Ha was comfortable with the new language of the claims and that she understood what inventive features the Applicants are trying to claim. Examiner Ha acknowledged the changes and that she understood the new language. Examiner Ha verified that support for the claim amendments was located in the specification and that she would review the Reps reference to see if the amended claim language was sufficient to overcome Reps.

The Applicants and the undersigned request Examiner Ha to review this interview summary and to approve it by writing "Interview Record OK" along with her initials and the date next to this summary in the margin as discussed in MPEP § 713.04, p. 700-202.

Claim Rejections under 35 U.S.C. §§ 102(e) and 103(a)

The Examiner rejected Claims 1-2 and 4-9, and 11-65 under 35 U.S.C. § 102(e) as being anticipated by the Reps reference. The Examiner rejected Claim 3 under 35 U.S.C. § 103(a) as being obvious in view of the Reps reference in view of the "Sundsted" reference. The Applicants respectfully offer remarks to traverse these pending rejections.

Independent Claim 1

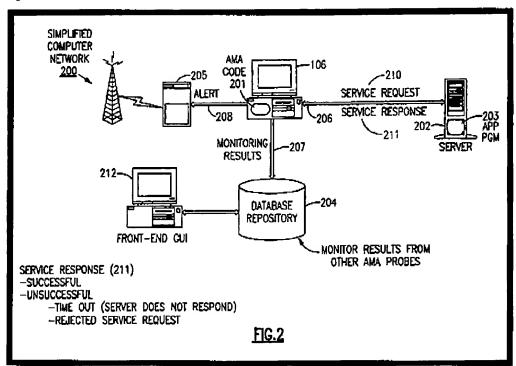
The rejection of Claim 1 is respectfully traversed. It is respectfully submitted that the Reps and Sundsted references fail to describe, teach, or suggest the combination of (1) recording computer security incident information with at least one of a date and time stamp, the computer security incident information indicating one of suspicious computer activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat and an actual computer security threat; (2) classifying the computer security incident information; (3) suggesting a procedure based on a classification of the computer security incident information; (4) providing data to enable display of a procedure comprising one or more steps for one of investigating and responding to the computer security incident information; (5) receiving a selection of one or more steps of a procedure; (6) executing the selected one or more steps of the procedure; (7) in response to executing the one or more steps of the selected procedure, recording executed procedure information and results of the executed one or more steps of the procedure with at least one of a date and time stamp; and (8) outputting a record comprising the computer security incident information, executed procedure information, results of one or more steps of the executed procedure, an identity of a user who selected the procedure, and at least one of a corresponding date stamp and time stamp, as recited in amended Claim 1.

The Reps Reference

The Reps reference describes technology that is in the field of network system service, and particularly to an end-user based application availability and response monitoring and alerting system. The technology described by the Reps reference enables the monitoring of availability of response time or other desired performance metrics of an

application program from the perspective of an end-user utilizing an application program over a distributed computing network. See the Reps reference, column 1, lines 24-31.

The Reps reference explains that a server computer 202 having an application program 203 provides application services to a client computer system 106 in which the client computer system 106 records information related to the performance of the services of the application program 203 via an application probe software 201 residing on the client computer system 1-6. See Figure 2 reproduced below and in column 5, lines 17-22 of the Reps reference.



Specifically, as illustrated in Figure 2 above, an application monitoring alerting (AMA) probe 201 can establish a session with a server computer 202 by requesting the services of an application program 203 operating on the server computer 202. The server computer's application program 203 provides a service response 211 over a network link 206 back to the requesting AMA probe 201. See the Reps reference, column 9, lines 58-68.

The system described by the Reps reference may include both a local and remote data repository 204 which collects probe data from a number of probes monitoring different applications at different points on a distributed computing network 100. The

centralized database repository 204 records transaction data from multiple probes 201 on the network 200 and may be designed to accessible to any user of the distributed computing network 200. See the Reps reference, column 10, lines 62 through column 11, line 5.

The Reps reference does not provide any teaching of recording computer security incident information with at least one of a date and time stamp in which the computer security incident information indicates one of suspicious computer activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat and an actual computer security threat. Instead of computer security incident information, the Reps reference is primarily concerned with the level of service and performance of an application program 203 residing on a server 202. However, the Examiner believes that the Reps reference teaches some aspects of computer security incident information.

To support the Examiner's finding that the Reps reference teaches some aspects of computer security incident information, the Examiner directs the Applicants' attention to Column 14, lines 55-57 of the Reps reference as set forth on page 3, paragraph 5 of the Final Office Action. However, these passages only discuss performance criteria associated with a level of service:

"This would be the case, for example, wherein alerting of violation of performance criteria is desired from the probe or wherein only real time transaction information is of interest to the network administrator." See Reps reference, column 14, lines 55-57.

Furthermore, the Examiner alleges that the Reps references discloses additional examples of "computer security incidents" including violations of the performance criteria of "threshold information such as maximum response time or minimum application availability" (Col. 24, lines 62-63); a server computer that was recorded as not available (Col. 10, lines 40-41); or an unsuccessful service response (Col. 15, lines 40-41).

One of ordinary skill in the art recognizes that the passages above from the Reps reference do not address computer security incident information indicating one of suspicious computer activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat and an actual computer security threat. Opposite to monitoring computer security incident information, the Reps reference provides a tool to diagnose and fix programs that are not running properly or in an optimal manner. The Reps reference is not at all concerned with any type of computer security threat or suspicious activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat.

The Examiner explains in her Response to Arguments section on page 18, paragraph 2, of the Non-Final Office Action that she is interpreting the term "computer security incident" very broadly. She explains that a computer security incident, "may be any problematic situation occurring in the computer or the network."

However, the Applicants believe that the Examiner is overlooking how computer security incident information has been further defined within each of the independent claims. For example, in independent Claim 1, the "computer security incident information" indicates one of suspicious computer activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat and an actual computer security threat. One of ordinary skill in the art recognizes that the Reps reference does not teach this type of computer security incident information as explicitly defined in amended independent Claim 1.

The Reps reference merely records the response 211 from the application program 203, whether the service request 210 was successful or unsuccessful. The Reps reference is not concerned with why a service request 210 may not have been successful. The Reps reference does not provide a procedure for investigating or responding to computer security incident information.

And it follows that the Reps reference does not classify the computer security incident information; suggest a procedure based on a classification of the computer security incident information; or provide data to enable display of a procedure comprising one or more steps for one of investigating and responding to the computer security incident information as recited in amended Claim 1.

The Applicants remind the Examiner that for a rejection based upon 35 U.S.C. § 102, MPEP § 2131 (8th Ed., Rev. 4, October 2005) states:

TO ANTICIPATE A CLAIM, THE REFERENCE MUST TEACH EVERY ELEMENT OF THE CLAIM...The identical invention must be shown in as complete detail as is contained in the...claim. <u>Richardson v. Suzuki Motor Co.</u>, 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989).

The Applicants submit that the Examiner has not shown the identical invention in as complete detail as is contained in amended independent Claim 1. Because the Reps reference does not teach any aspects of computer security, the Applicants submit that this reference fails to teach numerous elements recited in independent Claim 1 and therefore, the Reps reference fails to anticipate amended independent Claim 1.

The Sundsted Reference

The Examiner admits that the Reps reference fails to provide a teaching of a digital signature in connection with results that are recorded by computer system as recited in dependent Claim 3. To make up for this digital signature deficiency, the Examiner relies upon the Sundsted reference.

The Sundsted reference describes a digital signature that can be generated from a message in connection with sending an e-mail message. The Sundsted reference explains that a good digital signature algorithm guarantees that a digital signature can't be forged assuming the private key is secret, and that the signature is good for only the message from which it is generated. See the Sundsted reference, abstract, third paragraph.

While the Sundsted does provide an isolated teaching on digital signatures as understood by one of ordinary skill in the art, similar to the Reps reference, the Sundsted reference does not provide any computer security context. In other words, like the Reps reference, the Sundsted reference is not at all concerned with any type of computer security threat or suspicious activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat. The Sundsted reference does not provide any teaching for either investigating or responding to computer security incident information.

In light of the differences between Claim 1 and the Reps and Sundsted references, one of ordinary skill in the art recognizes that these prior art references, alone or in

combination, cannot anticipate or render obvious the recitations as set forth in amended independent Claim 1. Accordingly, reconsideration and withdrawal of the rejection of Claim 1 are respectfully requested.

Independent Claim 42

The rejection of Claim 42 is respectfully traversed. It is respectfully submitted that the Reps and Sundsted references, fail to describe, teach, or suggest the combination of (1) classifying the computer security incident information; (2) suggesting one or more computer security investigation procedures based on a classification of the computer security incident information; (3) providing data to enable display of the one or more computer security investigation procedures for investigating one of suspicious computer activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat and an actual computer security threat; (4) providing data to enable display of one or more computer security response procedures for responding to one of suspicious computer activity that occurs prior to a computer security threat and an actual computer security threat; (5) in response to a selection of a computer security investigation procedure, providing data to enable display of one or more corresponding investigation steps; (6) in response to a selection of a computer security response procedure, providing data to enable display of one or more corresponding response steps; and (7) generating a permanent record comprising computer security incident information, executed investigation step and result information, executed response step and result information, and corresponding date and time stamps, as recited in amended Claim 42.

As noted above with respect to independent Claim 1, neither the Reps reference nor the Sundsted reference relate in any way to suspicious computer activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat or an actual computer security threat; as recited in amended Claim 42. The Reps reference is merely concerned with logging performance of a computer and ways to diagnose or improve performance. The Sundsted reference provides only a general teaching of digital signatures using private and public keys. Neither reference classifies computer security incident information; suggests one or more computer security

investigation procedures based on a classification of the computer security incident information; and provides display of one or more computer security investigation and response procedures for suspicious computer activity or actual computer security threats, as recited in amended independent Claim 42.

In light of the differences between Claim 42 and the references mentioned above, one of ordinary skill in the art recognizes that the prior art references, alone or in combination, cannot anticipate or render obvious the recitations as set forth in amended independent Claim 42. Accordingly, reconsideration and withdrawal of this rejection are respectfully requested.

Independent Claim 51

The rejection of Claim 51 is respectfully traversed. It is respectfully submitted that the Reps and Sundsted references, fail to describe, teach, or suggest the combination of (1) accessing a table comprising computer locations, Internet address ranges associated with the computer locations, and computer security step information associated with the computer locations, (2) the computer security step information for one of investigating and responding to one of suspicious computer activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat and an actual computer security threat, (3) the computer locations identifying devices that are able to perform computer security steps associated with the computer security step information; (4) comparing a computer security step to be executed and a target Internet address with computer locations and Internet address ranges listed in the table; (5) determining if a match exists between an Internet address of a computer security incident and the Internet address ranges listed in the table; and (6) selecting a computer to execute the computer security step based upon the matching steps, wherein the computer has a location and is capable of interacting with the Internet address of the computer security incident, as recited in amended Claim 51.

As noted above with respect to independent Claim 1, neither the Reps reference nor the Sundsted reference relate in any way to suspicious computer activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat or an actual computer security threat; as recited in amended Claim 51.

The Reps reference is merely concerned with logging performance of a computer and ways to diagnose or improve performance. The Sundsted reference provides only a general teaching of digital signatures using private and public keys. Neither reference provides steps for investigating or responding to either suspicious computer activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat or an actual computer security threat.

Further, the Reps and Sundsted references also do not access a table comprising computer locations, Internet address ranges associated with the computer locations, and computer security step information associated with the computer locations, the computer security step information for one of investigating and responding to one of suspicious computer activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat and an actual computer security threat, and the computer locations identifying devices that are able to perform computer security steps associated with the computer security step information, as recited in independent Claim 51.

In light of the differences between Claim 51 and the references mentioned above, one of ordinary skill in the art recognizes that the prior art references, alone or in combination, cannot anticipate or render obvious the recitations as set forth in amended independent Claim 51. Accordingly, reconsideration and withdrawal of this rejection are respectfully requested.

Independent Claim 56

The rejection of Claim 56 is respectfully traversed. It is respectfully submitted that the Reps and Sundsted references, fail to describe, teach, or suggest the combination of (1) receiving computer security incident information indicating one of suspicious computer activity comprising one or more violations received from a network computer, that occurs prior to a computer security threat and an actual computer security threat; (2) classifying the computer security incident information; (3) displaying one or more tools for one of investigating and responding to computer security incident information; (4) suggesting a tool based on a classification of the computer security incident information; (5) receiving a selection of a tool; (6) in response to a selection of a tool, forwarding data

for execution of the tool; and (7) forwarding data for generating a permanent record comprising computer security incident information, executed tool information, and corresponding date and time stamps, as recited in amended Claim 56.

As noted above with respect to independent Claim 1, neither the Reps reference nor the Sundsted reference relate in any way to suspicious computer activity_comprising one or more violations received from a network computer, that occurs prior to a computer security threat or an actual computer security threat; as recited in amended Claim 56. The Reps reference is merely concerned with performance of a computer and ways to diagnose or improve performance. The Sundsted reference provides only a general teaching of digital signatures using private and public keys. Neither reference displays one or more tools for one of investigating and responding to computer security incident information.

In light of the differences between Claim 56 and the references mentioned above, one of ordinary skill in the art recognizes that the prior art references, alone or in combination, cannot anticipate or render obvious the recitations as set forth in amended independent Claim 56. Accordingly, reconsideration and withdrawal of this rejection are respectfully requested.

Dependent Claims 2-9, 11-41, 43-50, 52-55, and 57-65

The Applicants respectfully submit that the above-identified dependent claims are allowable because the independent claims from which they depend are patentable over the cited references.

The Applicants also respectfully submit that the recitations of dependent Claims 2-9, 11-41, 43-50, 52-55, and 57-65 are of patentable significance.

Specifically, with respect to dependent Claim 35, the Applicants respectfully submit that neither the Reps reference nor the Sundsted reference provide any teaching of predefined attributes of computer security incident information that comprise any one of a (1) computer incident severity level, (2) a computer incident category, (3) a computer incident scope value, (4) a computer incident status value, (5) an attacker internet protocol (IP) address value, (6) an attacker ISP name, (7) an attacker country, (8) an external attacker status value, (9) an incident type value, (10) a vulnerabilities level, (11)

an entry point value, (12) an attack profile value, (13) a target networks value, (14) a target firewalls value, (15) a target hosts value, (16) a target services value, (17) a target accounts value, and (18) a damage type value

Accordingly, reconsideration and withdrawal of the rejections of the dependent Claim 35 and the other remaining dependent claims are respectfully requested.

CONCLUSION

The foregoing is submitted as a full and complete response to the Office Action mailed on August 11, 2005. The Applicants and the undersigned thank Examiner Ha for the consideration of these remarks. The Applicants have submitted remarks to traverse the rejections of Claims 1-9 and 11-65. The Applicants respectfully submit that the present application is in condition for allowance. Such Action is hereby courteously solicited.

If any issues remain that may be resolved by telephone, the Examiner is requested to call the undersigned at 404.572.4647.

Respectfully submitted,

Kerry L. Broome Reg. No. 54,004

King & Spalding LLP 45th Floor 191 Peachtree Street, N.E. Atlanta, Georgia 30303 404.572.4600

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